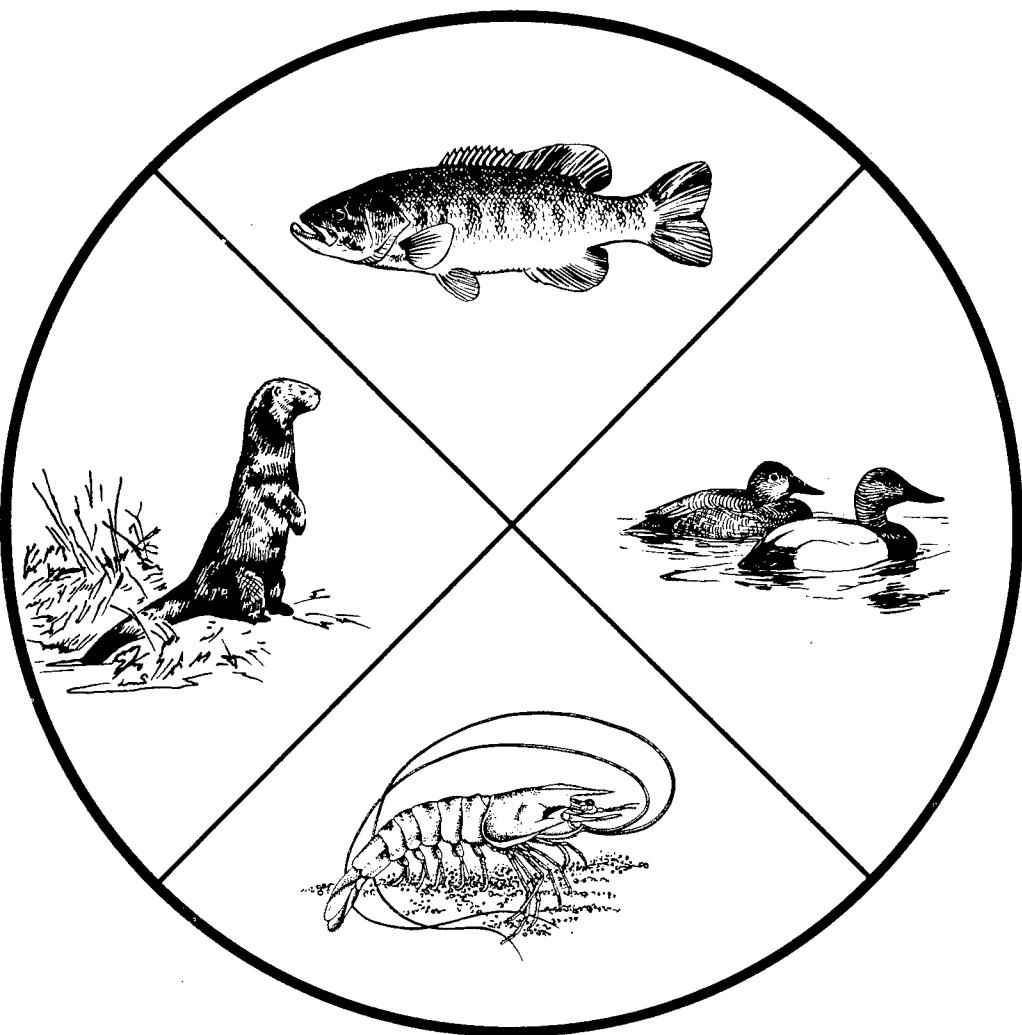


**BIOLOGICAL REPORT 85(1.16)  
FEBRUARY 1989**

## CONTAMINANT HAZARD REVIEWS REPORT NO. 16

# INDEX TO COMMON AND SCIENTIFIC NAMES OF SPECIES LISTED IN CONTAMINANT HAZARD REVIEWS 1 THROUGH 15



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Contaminant Hazard Reviews  
Report No. 16

INDEX TO COMMON AND SCIENTIFIC NAMES  
OF SPECIES LISTED IN CONTAMINANT  
HAZARD REVIEWS 1 THROUGH 15

by

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U.S. Department of the Interior

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## SUMMARY

The Contaminant Hazard Review series emphasizes ecotoxicological aspects of selected chemical pollutants to fishery and wildlife resources, and includes reports on various agricultural pesticides (mirex, carbofuran, toxaphene, diazinon, chlorpyrifos), metals and metalloids (arsenic, cadmium, chromium, mercury, lead, selenium, tin), and organic industrial wastes (polycyclic aromatic hydrocarbons, dioxins, polychlorinated biphenyls). The present account is a cumulative index to the common and scientific names of all biological species listed in the first 15 reports in the Contaminant Hazard Review series, published as U.S. Fish and Wildlife Service Biological Reports 85(1.1) through 85(1.15), inclusive. Individual species were cross-referenced by contaminant and corresponding page numbers.

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## INTRODUCTION

A total of 15 Contaminant Hazard Reviews have been published since 1985 (Eisler 1985a,b,c,d; 1986a,b,c,d; 1987a,b; 1988a,b; 1989; Eisler and Jacknow 1985; Odenkirchen and Eisler 1988). These reviews briefly summarized ecological and toxicological aspects of various chemical pollutants, with particular emphasis on fishery and wildlife resources. Specifically, the reviews were prepared on selected agricultural pesticides (mirex, carbofuran, diazinon, toxaphene, chlorpyrifos), metalloids (arsenic, selenium), metals (cadmium, lead, chromium, mercury, tin), and organic industrial wastes (polychlorinated biphenyls, dioxins, polycyclic aromatic hydrocarbons).

We present herein an index to the common and scientific names of all species listed in Contaminant Hazard Reviews 1 to 15. This report was prepared in response to a request from environmental specialists of the U.S. Fish and Wildlife Service. Taxonomic nomenclatures for plants, invertebrates, and vertebrates are under constant revision. Accordingly, we elected to conform as much as possible to the systems and spellings used by Swain and Swain (1948) for insects, Edwards (1974) for birds, American Fisheries Society (1980) for fishes, Johnson and Finley (1980) and Jenkins (1980) for invertebrates, Jenkins (1980) and Scott and Wasser (1980) for plants, and Nowak and Paradiso (1983) for mammals.

In this report, individual species are arranged alphabetically in the Index by scientific and common name. The scientific name is followed by an underlined number that refers to one of the Contaminant Hazard Reviews in the following list, and to the page numbers within the report.

- 1= Mirex (Eisler 1985a)
- 2= Cadmium (Eisler 1985b)
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- 4= Toxaphene (Eisler and Jacknow 1985)
- 5= Selenium (Eisler 1985d)
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- 12= Arsenic (Eisler 1988a)
- 13= Chlorpyrifos (Odenkirchen and Eisler 1988)
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    Atlantic, Gadus morhua

    Tom, Microgadus tomcod

Coleoptera: 1, 21; 3 26; 4 19; 6 42; 8 8; 12 42; 13 18, 14 29, 57.

Colinus virginianus: 1 7, 9, 16, 18, 21; 3 12, 24; 4 8, 12, 17, 18; 7 17, 40, 52; 8 23; 9 iv, 14, 23, 50, 51; 12 56, 58; 13 12, 14, 15; 14 77.

Collembola: 3 17, 26.

Columba livia: 2 24; 3 12; 7 54; 10 51, 53, 63; 13 13; 14 37, 78, 82.

Columba spp.: 15 50.

Colymbus (= Gavia) arcticus (= arctica): 7 22.

Comandra spp.: 5 6, 21.

Condor

    Andean, Vultur gryphus

    California, Gymnogyps californianus

Coontail, Ceratophyllum demersum

Coot, American, Fulica americana

Copepod, Acartia, Eurytemora, Nitroca, Tisbe

Coral, Diploria, Montastrea

Corals: 14 3.

Corbicula fluminea: 5 16.

Corbicula manilensis: 3 22.

Coregonus clupeaformis: 15 31.

Coregonus spp.: 14 32, 50.

Cormorant

    Double-crested, Phalacrocorax auritus

    Various, Phalacrocorax spp.

Corn, Zea mays

Corophium volutator: 12 50.

Cortinarius spp.: 10 21.

Corvidae: 10 12, 63.

Corvus brachyrhynchos: 13 13.

Corvus monedula: 10 54.

Cotton, Gossypium hirsutum

Cottontail, eastern, Sylvilagus floridanus

Coturnix coturnix: 1 6, 9; 9 14; 10 50, 51-53; 12 56; 14 86.

Coturnix japonica: 1 6, 7; 2 24; 3 11, 12, 14, 22; 4 8; 5 26, 27, 29; 7 40, 52, 53; 9 iii, 9; 10 51, 52, 62; 13 13, 15; 14 78; 15 8, 50-52.

Coturnix risoria: 13 15.

Cow, Bos bovis

Cowbird, brown-headed, Molothrus ater

Cowpea, Vigna sp.

Coyote, Canis latrans

Crab

    Alaskan king, Paralithodes camtschatika

    Alaskan snow, Chionocetes bairdii

    Blue, Callinectes sapidus

Drift-line, Sesarma cinereum  
Dungeness, Cancer magister  
Fiddler, Uca pugilator  
Hermit, Pagurus longicarpus  
Mud, Rithropanopeus harrissii  
Rock, Cancer irroratus  
Stone, Menippe mercenaria  
Various, Carcinus, Neptunus, Podophthalmus  
Crabs: 3 8; 5 27; 6 5, 35; 7 28; 12 29, 81; 15 11, 35.  
Crane  
    Lesser sandhill, Grus canadensis canadensis  
    Sandhill, Grus canadensis  
Crangon crangon: 2 16; 12 29; 14 66, 67; 15 44.  
Crappie, white, Pomoxis annularis  
Crassostrea commercialis: 2 4.  
Crassostrea gigas: 2 4; 5 33; 6 33; 10 13; 12 50; 15 27, 29, 34, 41.  
Crassostrea spp. 12 27; 14 71.  
Crassostrea virginica: 2 27, 28; 4 10, 14-16; 5 11; 6 24, 33; 7 44, 45; 10, 47; 11 27, 32, 36, 40, 42, 48; 12 27, 51, 54; 14 65; 15 11, 29, 44.  
Crataegus spp.: 14 28.  
Crawfish, Cambarus sp.  
Crayfish, Astacus, Orconectes, Pacifastacus, Procambarus  
Crayfishes: 3 1; 10 43, 64; 11 33.  
Crepidula fornicata: 10 48, 58, 59.  
Cricetus spp.: 2 31; 3 25; 6 27, 39; 8 24-26; 9 25; 11 1, 55; 12 10, 12, 35, 37-39, 64; 13 12; 15 56.  
Cricket, Gryllidae  
Cristigera sp.: 14 67.  
Croaker, Atlantic, Micropogonias undulatus  
Crocodyle, American, Crocodylus acutus  
Crocodylus acutus: 1 24; 10 30; 12 32.  
Crocothemis erythryaea: 13 7.  
Crow, American, Corvus brachyrhynchos  
Ctenocephalides spp.: 13 6.  
Culex pipiens quinquefasciatus: 11 42.  
Culex spp.: 3 22; 5 31; 7 45, 47; 13 17, 24.  
Cunninghamella elegans: 11 34.  
Cutworm, Lepidoptera  
Cygnus buccinator: 14 2, 51.  
Cygnus columbianus: 14 51.  
Cygnus olor: 14 2, 37, 51.  
Cynodon dactylon: 12 40.  
Cynoscion nebulosus: 4 6.  
Cyprinodon variegatus: 3 8, 10, 11, 21; 4 10, 11, 16; 5 34; 7 39, 48, 50, 51, 57; 9 11, 19, 21, 22; 11 38; 13 9, 10; 15 6, 42, 43, 48.  
Cyprinus carpio: 4 9; 5 17, 32, 35-37; 7 14, 33; 8 8, 9, 12; 12 24; 14 33; 15 39.

Dab, Limanda limanda

Damselflies, Odonata

Daphnia galeata mendotae: 2 21.

Daphnia longispina: 15 46, 47.

Daphnia magna: 2 17, 21, 27; 4 9, 11, 14, 15; 5 31; 6 20, 23, 26, 30; 7 37, 44, 45, 51; 8 19; 9 10, 19; 10 46, 49; 11 40-42; 12 45; 13 6, 7; 14 12, 13, 58, 59, 71; 15 35, 38, 44, 47.

Daphnia pulex: 2 21; 4 9; 5 31; 9 10; 11 40-44; 12 46.

Daphnia sp.: 1 4, 8, 12; 3 22; 4 7; 5 36; 6 25; 14 72.

Daphnids, 11 45, 48; 14 57.

Daucus sp.: 9 5; 14 56.

Deer

Mule, Odocoileus hemionus

Roe, Capreolus capreolus

Various, Cervidae

White-tailed, Odocoileus virginianus

Dendrocygna bicolor: 3 11, 12; 4 12; 10 51.

Dianthus sp.: 5 5.

Dicranum scoparium: 10 21.

Digitaria sanguinalis: 12 6.

Diomeda immutabilis: 14 3.

Diplopoda, Millipedes

Diplodus sargus: 10 26.

Diploria strigosa: 7 47.

Dog, Canis familiaris, Canis sp.

Dogfish

Smooth, Mustelus canis

Spiny, Squalus acanthias

Dolphin, striped, Stenella coeruleoalba

Donax venustus: 10 24.

Dorosoma cepedianum: 4 6, 7.

Dorosoma petenense: 4 7; 5 18.

Dove

Mourning, Zenaida macroura

Ringed turtle-, Streptopelia risoria

Ring-necked, Streptopelia capicola

Rock, Columba livia

Drosophila melanogaster: 10 68.

Drum, freshwater, Aplodinotus grunniens

Duck

American black, Anas rubripes

American wood, Aix sponsa

Fulvous whistling, Dendrocygna bicolor

Tufted, Aythya fuligula

Mottled, Anas fulvigula

Various, Anas spp.

Duckweed, Lemna media, Lemna minor

Dugesia dorotocephala: 10 49, 58.

Dunaliella marina: 12 55.

Dunaliella tertiolecta: 14 65.

**Eagle**

Bald, Haliaeetus leucocephalus

White-tailed sea-, Haliaeetus albicilla

**Earthworm**

Australian, Lumbricus sp.

Various, Allotabophora, Eisenia, Eisenoides, Lumbricus, Octochaetus

Earthworms: 3 1, 8, 17, 18; 5 6, 22, 27, 38; 6 5, 14, 25; 8 12; 12 44; 14 22, 29, 48, 57.

Echinodermata: 6 36; 10 59; 15 37.

Echinus esculentus: 2 7.

Ecklonia radiata: 12 35.

Eel, American, Anguilla rostrata

Eels, Anguilla

Egret, cattle, Bubulcus ibis

Eichornia crassipes: 10 21.

Eider, common, Somateria mollissima

Eisenia foetida: 3 18; 6 14; 10 57, 68.

Eisenia rosea: 14 29.

Eisenoides carolinensis: 14 29.

Egregia laevigata: 14 71.

Elasmopus pectenircus: 11 38.

Elk, Cervus canadensis (= elaphus), Cervus sp.

Elm, Ulmus americana

Elodea canadensis: 3 22; 14 70.

Elodea sp.: 3 21; 8 19.

Engraulidae: 14 34.

Enhydra lutris: 2 10.

Enteromorpha linza: 14 25.

Enteromorpha sp.: 15 28.

Entosiphon sulcatum: 14 59.

Eopsetta grigorjewi: 12 30.

Ephemerella sp.: 2 17, 28.

Eptesicus fuscus: 7 23, 34; 14 44.

Equus caballus: 1 33; 5 1, 26, 28, 29, 44; 8 1, 26; 12 65; 14 iii, 3, 44, 48, 53, 55, 87, 90, 91, 99, 104.

Eremophila alpestris: 4 12; 9 29; 13 17, 22, 23.

Erethizon dorsatum: 2 13.

Erythacus rubecula: 7 53.

Erolia (= Calidris) spp.: 3 1, 27.

Escherichia coli: 8 17.

Esox lucius: 5 32; 6 26; 8 20, 28; 10 26, 40, 61; 11 42, 46; 12 24; 14 64.

Esox niger: 8 16.

Estigmene acrea: 3 22, 23.

Eucyclops agilis: 2 21.

Euphausid, Meganyctiphanes norvegica

Eurytemora affinis: 11 38, 39; 12 51; 15 41.  
Eutamias townsendii: 14 44.

Falco columbarius: 1 32.

Falco mexicanus: 14 78, 79.

Falco peregrinus: 1 32; 7 52; 10 33; 14 38.

Falco rusticolus: 10 33, 41.

Falco sp.: 10 41.

Falco sparverius: 1 9, 16; 7 50; 14 13, 79, 80, 103.

Falco tinnunculus: 7 17; 10 54.

Falcon

Peregrine, Falco peregrinus

Prairie, Falco mexicanus

Swedish gyr, Falco rusticolus

Felis domesticus: 3 13; 4 8; 6 27; 8 1; 10 12, 15, 36, 54, 55, 64, 65, 68, 74; 12 65; 14 91, 99; 15 61.

Fern, ostrich, Matteuccia struthiopteris

Ferret, European, Mustela putorius furo

Fescue, Festuca arundinacea

Festuca arundinacea: 6 13.

Festuca rubra: 14 25.

Finch, house, Carpodacus mexicanus

Fish, harlequin, Rasbora heteromorpha

Flagfish, Jordanella floridae

Flatworm, see Dugesia dorotocephala

Flavobacterium: 5 4.

Fleas, Ctenocephalides spp., Siphonaptera

Flounder

Baltic or European, Platichthys flesus

Roundnose, Eopsetta grigorjewi

Summer, Paralichthys dentatus

Windowpane, Scophthalmus aquosus

Winter, Pseudopleuronectes americanus

Witch, Glyptocephalus cynoglossus

Yellowtail, Limanda limanda

Fly

Crane, Tipula sp.

Damsel, Ischnura

Dragon, Crocothemis, Macromia, Pseudagrion

Fruit, Drosophila melanogaster

Horn, Haematobia irritans, Muscidae

House, Musca domestica, Musca sp.

May, Hexagenia, Siphlonurus

Snipe, Atherix sp.

Stone, Claassenia, Isoperla, Pteronarcella, Pteronarcys

Formicidae: 1 20; 5 6, 38.

Fox, red, Vulpes vulpes

Fragaria vesca: 3 4.

Fratercula spp.: 2 15

Frog

Bull, Rana catesbeiana  
Cricket, Acris sp.  
European, Rana temporaria  
Green, Rana clamitans  
Leopard, Rana sphenocephala  
Tree, Hyla sp.  
Various, Rana, Xenopus

Frogs: 3 1, 22; 13 22.

Fruitworm, Lepidoptera

Fucus distichus: 14 26.

Fucus spp.: 11 32; 12 26.

Fucus vesiculosus: 2 4; 6 9; 12 26, 53; 14 26.

Fulica americana: 5 20, 38.

Fundulus heteroclitus: 2 28, 30, 31; 5 27; 6 23; 10 61; 13 19; 14 68; 15 45.

Fundulus kansasae: 5 36.

Fundulus similis: 4 16; 11 40; 13 8.

Fungi: 5 20; 12 9; 14 24, 57; 15 10, 15.

Fungus, Cortinarius spp., Cunninghamella elegans

Gadopsis marmoratus: 10 27.

Gadus morhua: 2 8; 7 8, 12, 47; 12 31; 15 31.

Gadwall, Anas strepera

Galleria melonella: 3 17.

Gallinule, purple, Porphyryla martinica

Gallus sp.: 1 5, 9, 15, 19; 2 iii, 24, 31; 3 11, 23, 24; 4 17; 5 1, 29, 38; 6 18, 19, 27, 37; 7 36, 50, 53, 60; 8 1, 23, 28; 9, iv, 1, 6, 9, 14, 19, 23; 10 1, 51, 53, 61, 62, 74; 12 4, 6, 56, 58, 59, 61, 76, 77; 13 10, 12, 15; 14 13, 14, 80, 81, 86; 15 8, 32, 50, 51.

Gambusia affinis: 1 12; 2 28; 3 9; 5 18, 32, 36, 37; 8 21; 11 38, 42, 46; 13 9, 18; 14 34.

Gammarus duebeni: 10 49.

Gammarus fasciatus: 9 10.

Gammarus lacustris: 13 6, 7.

Gammarus oceanicus: 15 43.

Gammarus pseudolimnaeus: 7 37, 45; 10 46, 61; 11 37; 12 46, 53; 14 59.

Gammarus spp.: 1 4, 8; 4 9, 11; 6 20; 51.

Gar, spotted, Lepisosteus oculatus

Gasterosteus aculeatus: 2 17; 4 10; 14 64.

Gastrophryne carolinensis: 10 47; 12 44, 47, 81.

Gastropods: 3 24; 4 7; 5 27, 36; 6 12; 12 53, 81; 14 31.

Gavia arctica: 7 22.

Gavia immer: 5 19; 10 63; 14 38.

Gazelle, Antilopinae

Gerbil, Gerbillus sp., Meriones unguiculatus

Gerbillus sp.: 15 56.

Girella punctata: 10 14.

Glebula rotundata: 3 22, 23.  
Globicephala macrorhynchus: 2 10; 5 15.  
Glycine max: 2 12; 4 19; 12 39, 40, 43; 14 48, 56.  
Glyptocephalus cynoglossus: 12 66.  
Glyptotendipes barbipes: 7 47.  
Goat, domestic, Capra hircus, Capra sp.  
Goatfish, Mullus, Upeneus  
Goby, edible, Boleophthalmus dussumieri  
Goldenrod, Solidago graminifolia  
Goldfish, Carassius auratus  
Goose  
    Canada, Branta canadensis  
    Greylag, Anser anser  
    Various, Anser spp.  
Goosefish, Lophius piscatorius  
Gopher, pocket, Thomomys sp.  
Goshawk, Accipiter gentilis  
Gossypium hirsutum: 3 19, 23; 4 iii, 1, 3, 4, 19; 12 6, 14, 39.  
Grackle  
    Common, Quiscalus quiscula  
    Great-tailed, Quiscalus mexicanus  
Grape, Vitis sp.  
Grass  
    Bahia, Paspalum notatum  
    Blue, Poa annua  
    Brome, Bromus inermis, Bromus spp.  
    Buffalo, Bouteloua dactyloides  
    Colonial bent-, Agrostis tenuis  
    Common Bermuda, Cynodon dactylon  
    Crab, Digitaria sanguinalis  
    Marsh, Spartina sp.  
    Johnson, Sorghum halepense  
    Red fescue, Festuca rubra  
    Saltmarsh, Spartina alterniflora  
    Western wheat, Agropyron smithii  
Grasshopper, western, Melanoplus spp.  
Grasshoppers: 4 7, 19; 9 iv, 29.  
Grebe  
    Eared, Podiceps nigricollis  
    Great crested, Podiceps cristata  
    Pied-billed, Podilymbus podiceps  
Grebes, Podicipediformes  
Grindelia spp.: 5 6.  
Grindelia squarrosa: 5 21.  
Groundnut, Arachis hypogaea  
Grouse  
    Ruffed, Bonasa umbellus  
    Sharp-tailed, Tympanuchus phasianellus

Grunion, California, Leuresthes tenuis

Grus canadensis: 13 13; 14 2.

Grus canadensis canadensis: 4 12.

Gryllidae: 1 21; 6 42.

Gudgeon, topmouth, Pseudorasbora parva

Gull

California, Larus californicus

Franklin's, Larus pipixcan

Great black-backed, Larus marinus

Herring, Larus argentatus

Laughing, Larus atricilla

Lesser black-backed, Larus fuscus

Ring-billed, Larus delawarensis

Gumweed, Grindelia spp., Grindelia squarrosa

Guppy, Poecilia reticulata

Gutierrezia spp.: 5 6, 21.

Gymnogyps californianus: 14 3.

Haddock, Melanogrammus aeglefinus

Haematobia irritans: 13 16.

Haematopus ostralegus: 5 14.

Hagfish, Atlantic, Myxine glutinosa

Hake

Blue, Antimora rostrata

Red, Urophycus chuss

Haliaeetus albicilla: 10 63.

Haliaeetus leucocephalus: 1 31; 7 17, 32, 52; 10 33, 41, 74; 14 2, 38, 51, 74, 81, 103.

Haliaeetus sp.: 10 41.

Halibut, Atlantic, Hippoglossus hippoglossus

Halichoeres grypus: 10 43.

Haliotis rufescens: 2 5; 6 9; 14 71.

Hamster

Chinese, Cricetus spp.

Golden, Cricetus spp.

Haplopappus spp.: 5 21.

Hardy head, small-mouthed, Atherinasoma microstoma

Hare, Lepus europaeus

Hawk

Cooper's, Accipiter cooperii

Pigeon (= Merlin), Falco columbarius

Red-shouldered, Buteo lineatus

Red-tailed, Buteo jamaicensis

Hawthorn, Crataegus spp.

Heather, Scotch, Calluna vulgaris

Helianthus spp.: 4 iv, 21.

Helisoma campanulata: 12 46.

Helisoma sp.: 8 19.

Helisoma trivolvis: 13 7.

Helix aspersa: 3 23.

Helix spp.: 14 57.

Hemicentrotus sp.: 6 37.

Hemicromus bimaculatus: 15 46.

Hemifusus spp.: 12 27, 81.

Hen, guinea, Gallus sp.

Hermione hystrix: 6 35, 36.

Heron

Black-crowned night-, Nycticorax nycticorax

Gray, Ardea cinerea

Great blue, Ardea herodias

Green-backer (= Green, Striated), Butorides striatus

Little green, Butorides virescens (= striatus)

Yellow-crowned night-, Nycticorax violaceus

Herring, Pacific, Clupea harengus pallasi

Hexagenia bilineata: 11 38.

Hexagenia sp.: 5 16; 9 19; 11 41.

Himantopus mexicanus: 5 20.

Hinnites multirugosus: 10 20.

Hippoglossus hippoglossus: 15 31.

Hirundo rustica: 14 38, 39, 52.

Hog, Sus spp.

Hogchoker, Trinectes maculatus

Holothurian, sea cucumber, Stichopus

Homarus americanus: 2 7, 29; 10 24; 11 27, 31, 32; 12 29, 35; 14 67; 15 29, 44.

Homo sapiens: 1 iii, 1, 18, 27, 30, 33; 2 1, 16, 26, 27, 31-34; 3 iii, 3, 15, 16, 25, 27; 4 iii, iv, 4, 13, 14, 18, 20, 21; 5 iv, 1, 2, 5-7, 26, 27, 40-44; 6 iii, 1, 14, 18, 27, 38, 41, 46; 7 iii, 1, 5, 33, 54, 55, 57-59, 61; 8 iii, 1-3, 16, 24, 28; 9 iii, 1, 18; 10 iii, 1, 2, 4, 10-12, 17, 40, 44, 54, 56, 62-65, 67-69, 72, 74; 11 iv, 1, 2, 9, 10, 12, 25, 40, 50, 51, 58-60, 62, 63; 12 iii, iv, 1-5, 12, 14, 20, 35, 37, 38, 61, 65, 72-74, 77, 81; 13 1, 24; 14 iii, 1, 2, 5, 7, 11-14, 86, 104-108 108; 15 1-4, 12, 34, 56, 63, 65, 66, 68, 69.

Honeybee, Apis mellifera, Apis spp.

Hordeum vulgare: 12 39.

Hormomyia mutabilis: 10 13.

Hornworm, tobacco, Manduca sexta

Horse, Equus caballus

Hyacinth, water, Eichornia crassipes

Hyalella azteca: 5 31; 11 45.

Hydra, Hydra oligactis, Hydra sp.

Hydra oligactis: 7 37.

Hydra sp.: 1 8.

Hydrodictyon reticulatum: 6 30.

Hydroid, Campanularia

Hyla sp.: 10 47.

Hymenomonas carterae: 12 54.  
Hypnum cupressiforme: 11 25, 26; 14 24.  
Hypogymnia physodes: 10 21.

Ibis, white-faced, Plegadis chihi  
Ictalurus furcatus: 4 6, 7.  
Ictalurus melas: 4 9.  
Ictalurus nebulosus: 7 12; 8 10, 11, 16; 11 23, 31, 47, 49.  
Ictalurus punctatus: 1 7, 8; 2 20; 3 9; 4 4, 6, 9, 11, 14, 15, 16; 5 18, 32, 35; 6 26; 7 38; 8 9, 11, 12, 22; 10 28, 46; 12 25, 47; 13 9; 14 63; 15 45.  
Ictalurus spp.: 8 16.  
Indoplanorbis exustus: 9 20.  
Ipomoea batatas: 9 1.  
Ischnura sp.: 2 28.  
Ischnura verticalis: 7 37.  
Isoperla sp.: 10 23.  
Isopod, Asellus sp.  
Isurus oxyrinchus: 12 31.

Jackdaw, Corvus monedula  
Jewelfish, Hemichromus bimaculatus  
Jordanella floridae: 5 32; 9 10, 22; 12 47, 55.

Kale, Brassica oleracea acephala  
Kelletia kelletia: 10 20.  
Kelp  
    Brown, Ecklonia radiata  
    Giant, Macrocystis pyrifera  
Kestrel, Falco tinnunculus  
Kestrel, American, Falco sparverius  
Killifish  
    Diamond, Adinia xenica  
    Freshwater, Fundulus kansae  
    Longnose, Fundulus similis  
Kingfisher, belted, Ceryle alcyon  
Kittiwake, black-legged, Rissa tridactyla  
Klebsiella pneumoniae: 12 73.  
Knifejaw, striped, Oplegnathus fasciatus  
Knot, red, Calidris canutus  
Knotted wrack, Ascophyllum nodosum

Lacewing, common green, Chrysopa carnea  
Lactuca sativa: 11 25, 26, 35; 14 26, 57.  
Lactuca spp.: 2 12; 4 1.  
Lagarosiphon major: 12 69.  
Lagodon rhomboides: 1 7, 12; 4 10; 5 34; 7 39, 46.  
Lagopus lagopus: 10 41; 14 81, 82.

Lagopus mutus: 10 41; 14 100.

Laminaria digitata: 12 26.

Laminaria hyperborea: 12 27.

Lamprey, Petromyzontidae

Lanistes carinatus: 13 7.

Lanternfishes, Myctophidae

Laomedea loveni: 2 23.

Lark

Horned, Eremophila alpestris

Southern meadow, Sturnella magna argutula

Western meadow, Sturnella neglecta

Larus argentatus: 1 26-29, 32; 4 6; 5 15; 7 19; 8 1, 8, 13, 16, 23; 10 34.

Larus atricilla: 2 9; 4 6.

Larus californicus: 10 34.

Larus delawarensis: 4 6; 7 33, 36.

Larus fuscus: 6 14.

Larus marinus: 1 32.

Larus pipixcan: 4 6.

Lecanora conizaeoides: 14 48.

Ledum sp.: 10 21.

Leeches: 3 1; 5 6, 37; 9 19.

Leek, Allium porrum

Leiostomus xanthurus: 4 15; 7 39, 46.

Lemna media: 15 46.

Lemna minor: 6 30.

Lepidoptera: 3 26; 4 1, 19; 14 30.

Lepisosteus oculatus: 4 7.

Lepomis cyanellus: 3 9; 4 9; 5 18, 30, 35; 12 25, 55; 13 20.

Lepomis gibbosus: 6 12; 7 12; 10 28.

Lepomis macrochirus: 1 8, 12, 13; 2 31; 3 9; 4 7, 9; 5 17, 32, 37; 6 21, 26, 31, 41; 7 37; 9 8, 10; 11 37, 40-43, 45; 12 25, 47, 53, 55, 75; 13 8, 18, 20; 14 33, 63; 15 45.

Lepomis megalotis: 14 33.

Lepomis microlophus: 4 9.

Lepomis punctatus: 8 8.

Leptinotarsa decemlineata: 12 5.

Leptonychotes weddelli: 7 34.

Lepus europaeus: 7 24; 14 82.

Lepus sp.: 1 6; 3 15; 4 8; 5 28; 6 27, 38, 39; 7 42, 54, 55; 8 1, 12, 13, 24-26; 9 13, 16; 10 64; 11 1, 12; 12 72, 73; 14 91; 15 58, 59, 61.

Lettuce, Lactuca sativa, Lactuca spp.

Leuciscus idus melanotus: 15 40, 46.

Leucospius delineatus: 2 27.

Leuresthes tenuis: 13 6, 8, 11.

Lichen, Hypogymnia, Lecanora, Parmelia

Lily, water, Nuphar luteum

Limanda limanda: 2 8; 12 52; 15 38.

Limanda sp.: 12 35.

Limnodrilus hoffmeisterei: 3 10; 15 27.  
Limnodrilus sp.: 11 45.  
Limpet,  
    Slipper, Crepidula fornicata  
    Various, Acmaea, Littorina, Patella  
Limpkin, Aramus guarauna  
Lithobius variegatus: 14 57.  
Littorina littorea: 2 5; 6 10; 12 28.  
Loach, Misgurnis fossilis  
Lobster  
    American, Homarus americanus  
    Spiny, Nephrops, Panulirus  
    Western rock, Panulirus cygnus  
Lobsters: 6 35; 11 32; 12 29, 81.  
Locoweed, Astragalus spp.  
Loligo vulgaris: 12 28.  
Lolium perenne: 7 11.  
Longspur, chestnut-collared, Calcarius ornatus  
Loon  
    Arctic, Gavia arctica  
    Common, Gavia immer  
Lophius piscatorius: 6 37.  
Lophodytes cucullatus: 7 19.  
Louse, wood, Oniscus, Porcellio  
Lugworm, Arenicola cristata  
Lumbricus herculeus: 3 18.  
Lumbricus rubellus: 8 17.  
Lumbricus sp.: 3 18.  
Lumbricus terrestris: 3 18; 14 30.  
Lutjanus griseus: 11 43.  
Lutra canadensis: 5 23; 7 10, 24, 33, 34; 10 36, 43, 54, 55, 64.  
Lycopersicon esculentum: 4 1; 10 25; 11 35.  
Lygaeidae: 4 1.  
Lymnaea palustris: 14 59.  
Lymnaea peregra: 14 72.  
Lymnaea stagnalis: 15 39.  
Lymnaea sp.: 15 45.  
Lynx rufus: 10 36.  
Lysmata caudata: 5 37.  
Lysmata seticaudata: 5 13; 12 54, 55.  
  
Macaca fascicularis: 14 94; 15 56.  
Macaca iris: 14 94.  
Macaca mulatta: 1 17; 3 8, 15; 7 iv, 54, 55, 58, 60; 8 25, 26; 10 54, 55, 65; 14 95.  
Macaca sp.: 3 16; 10 66; 12 66.  
Machaeranthera spp.: 5 6.  
Macoma balthica: 12 51; 14 86.

Macoma nasuta: 3 10.  
Macrobrachium lamarrei: 6 20, 30.  
Macrobrachium rosenbergerii: 1 4.  
Macrocystis pyrifera: 6 33.  
Macromia sp.: 7 37.  
Macrosiphium gei: 10 25.  
Magpie, black-billed, Pica pica  
Makaira indica: 2 8; 5 14; 10 28.  
Makaira nigricans: 5 14; 10 28.  
Malacosoma americanum: 14 30, 48.  
Mallard, Anas platyrhynchos  
Malus malus: 5 5; 12 6; 15 65, 69.  
Malus sylvestris: 12 22.  
Man, Human, Child, Infant, Homo sapiens  
Manatee, Tricheschus manatus  
Manduca sexta: 9 25.  
Mangrove, Bruguiera, Rhizophora  
Maple, red, Acer rubrum  
Marlin  
    Black, Makaira indica  
    Blue, Makaira nigricans  
Marmoset, Callithrix jacchus  
Marmota monax: 5 23; 15 32.  
Marten, Martes martes  
Martes martes: 10 64.  
Mastotermes darwinensis: 1 20, 33.  
Matteuccia struthiopteris: 7 44.  
Meadowlark, Sturnella spp.  
Medaka, Oryzias latipes  
Medicago sativa: 3 iii, 1, 23, 27, 28; 4 1, 18; 9 1; 10 21; 12 22, 39.  
Meganyctiphanes norvegica: 5 12, 37.  
Melanogrammus aeglefinus: 5 34; 10 48.  
Melanoplus spp.: 12 56.  
Meleagris gallopavo: 4 7; 9 iii, 8, 14; 12 4, 56, 59, 76, 77; 13 10, 12, 15;  
    14 2; 15 8.  
Menhaden, Atlantic, Brevoortia tyrannus  
Menidia beryllina: 13 8, 11.  
Menidia menidia: 5 34; 6 22; 13 8, 11.  
Menidia peninsula: 13 8, 11.  
Menippe mercenaria: 12 29.  
Mercenaria mercenaria: 4 10; 6 10, 33; 10 47; 11 40; 12 28.  
Merganser  
    Common, Mergus merganser  
    Hooded, Lophodytes cucullatus  
    Red-breasted, Mergus serrator  
Mergus merganser: 7 19.  
Mergus serrator: 5 20; 7 19.  
Mergus spp.: 7 22.

Meriones unguiculatus: 12 12.  
Merlin, Falco columbarius  
Metamysidopsis elongata: 15 44.  
Mice  
    Deer, Peromyscus maniculatus  
    White-footed, Peromyscus leucopus  
Microcystis aeruginosa: 14 58.  
Microgadus tomcod: 11 47.  
Micropogonias undulatus: 6 37.  
Micropterus dolomieu: 8 11; 12 25; 14 33, 64.  
Micropterus ochrogaster, see Microtus ochrogaster  
Micropterus salmoides: 4 7, 9, 15; 5 17, 37; 6 41; 7 12; 10 28, 46; 11 45; 12 25; 13 20.  
Microtus agrestis: 5 6, 23.  
Microtus arvalis: 8 12, 16.  
Microtus ochrogaster: 1 5, 7, 11, 18, 30, 33; 14 44.  
Microtus pennsylvanicus: 2 13; 14 47.  
Midge, Chaoborus, Chironomus, Tanytarsus  
Midge, phantom, Chaoborus puntipennis  
Milkvetch, Astragalus spp.  
Millipedes: 3 26; 14 30, 48.  
Mimus polyglottos: 12 56.  
Mink, Mustela vison  
Minnow,  
    Cyprinid, Phoxinus, Puntius  
    Eastern mud, Umbra pygmaea  
    Fathead, Pimephales promelas  
    Mud, Umbra limi  
    Sheepshead, Cyprinodon variegatus  
    Various, Poeciliopsis  
Misgurnis fossilis: 15 39.  
Mite  
    European red, Panonychus ulmi  
    McDaniel spider, Tetranychus mcdanieli  
    Two-spotted spider, Tetranychus urticae  
    Various, Arachnids  
Mockingbird, northern, Mimus polyglottos  
Mole, Talpa europaea  
Molothrus ater: 3 12; 7 36, 40; 10 54; 12 56, 59.  
Monkey  
    Cynomolgus, Macaca spp.  
    Rhesus, Macaca mulatta  
    Squirrel, Saimiri spp.  
Monkeys: 4 18; 5 26; 7 55; 8 24, 28, 29; 9 iii, 27; 11 1; 14 iii, 3, 87, 99, 108; 15 4, 61.  
Montastrea annularis: 14 31.  
Moose, Alces alces  
Morone saxatilis: 2 8, 17, 23; 4 10; 5 14; 6 21; 7 13, 31, 47, 60; 10 28, 40,

59; 12 26, 31; 13 6, 7.  
Mosquito, Aedes, Culex,  
Mosquitofish, Gambusia affinis  
Moss  
    Irish, Chondrus crispus  
    Various, Brachythecium, Hylocomium, Hypnum, Sphagnum  
Moth  
    Codling, Carpocapsa pomonella  
    Greater wax, Galleria melonella  
    Pineapple gummosis, see Lepidoptera  
Mouse  
    Beach, or Old field, Peromyscus polionotus  
    Field, Microtus arvalis  
    Domestic, Mus spp.  
    Western jumping, Zapus princeps  
    Wood, Apodemus sylvaticus  
Moxostoma duquesnei: 14 33.  
Mudalia potosensis: 11 38.  
Mugil cephalus: 1 15; 4 6; 12 31; 13 8.  
Mullet  
    Gray, Chelon labrosus  
    Striped, Mugil cephalus  
    Yellow-eye, Aldrichetta forsteri  
Mullus barbatus: 15 27.  
Mummichog, Fundulus heteroclitus  
Murre, common, Uria aagle  
Murrel, Channa punctatus  
Mus spp.: 1 4, 6, 7, 10; 2 24, 26, 31; 3 11, 13, 24, 25; 4 8, 18; 5 39; 6 27, 38, 39, 44; 7 41, 49, 55; 8 24-27; 9 iv, 8, 13, 16, 18, 24-26; 10 67; 11 1, 51-56, 62, 63; 12 12, 36, 38, 66, 73; 14 iii, 12, 53, 55, 87, 92, 99, 104; 15 4, 8, 10, 52-55, 57, 59-61, 64, 65.  
Musca domestica: 3 17, 18; 9 13.  
Musca sp.: 3 23.  
Muscidae: 1 21; 9 iii, 1, 3; 13 1.  
Muskrat, Ondatra zibethicus  
Mussel  
    Common, Mytilus edulis  
    Duck, Anodonta anatina  
    Various, M. californianus, M. edulis planulatus, M. galloprovincialis  
Mussels: 5 16; 6 88; 10 61; 11 25, 28; 12 53; 15 20, 37.  
Mustela putorius furo: 7 41, 43, 54; 10 64; 14 99.  
Mustela vison: 7 iv, 10, 24, 33, 41-43, 53, 54, 58, 60, 61; 10 37, 43, 54-56, 64, 66, 74.  
Mustelus antarcticus: 12 35.  
Mustelus canis: 6 11.  
Mya arenaria: 6 33, 34; 10 25, 47; 11 27, 29, 32; 14 52, 66; 15 45.  
Myctophidae: 14 100.  
Myotis grisescens: 7 24.

Myotis lucifugus: 7 25, 34; 14 44, 53.  
Myotis spp.: 14 44.  
Myoxocephalus scorpius: 2 9.  
Myriophyllum spicatum: 6 30.  
Mysidopsis bahia: 4 10, 15; 5 33; 6 26; 9 11, 22; 10 48, 59; 12 51; 13 6, 7; 14 66; 15 45.  
Mysidopsis spp.: 2 16, 23; 7 27.  
Mysis relicata: 7 11, 29.  
Mystus vittatus: 3 9, 20, 21.  
Mytilus californianus: 10 25, 43; 11 48.  
Mytilus edulis: 2 5; 3 10; 5 12; 6 10, 34; 10 25, 48; 11 28, 32, 45; 12 28, 51; 14 31, 65, 66; 15 30, 41, 42, 48.  
Mytilus edulis planulatus: 2 5.  
Mytilus galloprovincialis: 5 12, 30, 37; 12 53.  
Myxine glutinosa: 11 47.  
  
Nais sp.: 6 23.  
Najus guadalupensis: 14 71.  
Nassarius obsoletus: 12 51; 15 45, 49.  
Natrix sp.: 5 17.  
Navicula sp.: 14 70.  
Neanthes arenaceodentata: 6 22, 24, 26, 36; 11 37-39, 43; 14 66.  
Nematode, Brugia, Bursaphelenchus, Panagrellus, Parafilaria  
Nematodes: 9 iii, 1; 15 15.  
Nephrops norvegicus: 10 24.  
Nephtys hombergi: 2 7.  
Neptunus pelagicus: 10 13.  
Nereis diversicolor: 2 7; 6 10.  
Nereis virens: 5 36; 6 22; 7 47; 11 45.  
Neritina sp.: 15 45.  
Nerodia cyclopion: 7 15.  
Nerodia rhombifera: 7 17.  
Nerodia sipedon: 14 35.  
Nerodia spp.: 7 31.  
Nicotiana tabacum: 2 12; 3 4, 23; 5 22; 6 13, 42; 10 22; 12 6.  
Nicrophorus tomentosus: 14 31.  
Nitroca spinipes: 15 44, 47.  
Nitzschia liebenthutti: 15 48.  
Nostoc muscorum: 3 18.  
Notopterus notopterus: 10 46, 59.  
Notropis hudsonius: 8 11; 12 48.  
Notropis venustus: 4 7.  
Nucella lapillus: 15 49.  
Nucellus lapillus: 15 30, 40.  
Nuphar luteum: 2 10.  
Nycticorax nycticorax: 1 32; 7 19, 32, 52; 8 1.  
Nycticorax violaceus: 4 7.

Oak, Quercus spp.  
Oat, Avena sativa  
Oceanodroma furcata: 1 32.  
Octochaetus pattoni: 10 57, 68.  
Octopus, Paroctopus sp.  
Odobenus rosmarus: 2 10.  
Odocoileus hemionus: 4 12; 10 54, 56, 64; 12 68, 72; 14 53, 104.  
Odocoileus virginianus: 2 14; 5 23; 12 34, 68; 14 45, 53; 15 32.  
Odonata: 9 19.  
Oedogonium cardiacum: 3 22; 5 31; 8 19; 11 42.  
Oedogonium sp.: 6 30.  
Okra, Abelmoschus esculentus  
Oligochaetes: 7 29; 15 27, 48.  
Olisthodiscus Tutens: 6 32.  
Ommastrephes bartrami: 2 5.  
Oncorhynchus gorbuscha: 11 38; 12 52.  
Oncorhynchus keta: 12 49.  
Oncorhynchus kisutch: 1 7, 8, 27, 29; 2 18; 3 9; 4 9; 5 18, 32; 6 31; 7 14, 30, 31, 49; 8 11, 12, 18, 21; 11 38; 12 26; 14 69.  
Oncorhynchus spp.: 6 21, 23, 25.  
Oncorhynchus tshawytscha: 1 27; 2 17; 5 18; 6 31; 7 30, 61; 15 34.  
Ondatra zibethicus: 10 37, 43; 14 45; 15 32.  
Onion, Allium sp.  
Oniscus asellus: 14 57.  
Onopsis spp.: 5 6.  
Ophioderma brevispina: 15 42.  
Oplegnathus fasciatus: 9 8, 11.  
Opsanus beta: 13 9, 10, 11.  
Orange, Mandarin, Citrus tachibana  
Orchestia traskiana: 15 45.  
Orconectes immunis: 13 7.  
Orconectes limosus: 10 46.  
Orconectes naius: 7 37, 45; 14 71.  
Orconectes virilis: 10 23.  
Orfe, golden, Leuciscus idus melanotus  
Oryctolagus cuniculus: 13 14; 15 10, 11, 52, 64.  
Oryza sativa: 3 iii, 1, 8, 19, 27; 5 22; 8 29; 9 1; 10 22; 12 39, 40; 14 26.  
Oryzaephilus surinamensis: 13 1.  
Oryzias latipes: 2 22.  
Osmerus mordax: 1 27, 29; 8 11; 15 31.  
Osprey, Pandion haliaetus  
Ostrea edulis: 15 2, 30, 42.  
Otter  
    River, Lutra canadensis  
    Sea, Enhydra lutris  
Otus asio: 7 52, 60.  
Ovis aries: 3 13; 9 14, 27; 10 37; 12 68, 69; 14 iii, 3, 12, 45, 55, 87, 92-94, 99; 15 33.

Ovis canadensis: 6 15.

Ovis sp.: 1 33; 3 24; 4 8, 18, 19; 5 1, 26, 28, 29, 41; 9 1, 24; 10 43; 12 3; 15 15, 60, 64, 68.

Owl

Barn, Tyto alba

Eagle, Bubo bubo

Great horned, Bubo virginianus

Long-eared, Asio otus

Screech, Otus asio

Oyster

American, Crassostrea virginica

European flat, Ostrea edulis

Pacific, Crassostrea gigas

Sydney rock, Crassostrea commercialis

Oystercatcher, Eurasian, Haematopus ostralegus

Oysters: 5 27; 6 17, 34, 44; 7 48, 49; 11 40; 15 11, 20, 27, 34, 43, 70.

Pachymetopan grande: 6 37.

Pacifastacus sp.: 10 23.

Pagophilus groenlandica: 10 54, 56, 65, 74.

Pagurus longicarpus: 2 16.

Paintbrush, Indian, Castilleja spp.

Palaemon macrodactylus: 4 10.

Palaemonetes kadiakensis: 4 9; 7 37, 45.

Palaemonetes pugio: 2 7; 4 10; 6 35; 7 38; 11 37-39; 13 7; 14, 31; 15 45, 48.

Palaemonetes vulgaris: 1 12, 15, 21, 22; 2 16.

Palm, Iraqi date, Phoenix sp.

Panagrellus redivivus: 9 25, 28.

Pandalus borealis: 12 29, 35.

Pandalus montagui: 2 7; 14 31.

Pandalus spp.: 12 29.

Pandion haliaetus: 4 7; 6 14; 10 34; 12 21, 32.

Panonychus ulmi: 15 65.

Pantala hymenea: 2 28.

Panthers: 14 99.

Panulirus cygnus: 12 35.

Panulirus interruptus: 2 7.

Papio anubis: 14 95, 99.

Paracentrotus lividus: 14 31.

Parafilaria bovicola: 12 12.

Paralichthys dentatus: 5 34.

Paralithodes camtschatica: 12 29.

Paramecium caudatum: 11 48.

Paranaïs sp.: 8 19.

Parmelia baltimorensis: 14 23, 24.

Paroctopus sp.: 12 35.

Parophrys vetulus: 11 45, 46, 48; 12 32.

Partridge, gray, Perdix perdix

Paspalum notatum: 1 21, 23.

Passer domesticus: 3 12, 15; 5 23; 9 9; 10 52; 13 13; 14 39.

Patella caerulea: 15 27, 30.

Pea, Pisum sativum

Peanut, Arachis hypogea

Pear, Pyrus communis

Pecten alba: 12 35.

Pecten maximus: 2 6; 15 30, 34.

Pelecanus occidentalis: 2 10; 4 7; 5 14; 6 14; 10 34; 12 21, 32; 14 39.

Pelecanus sp.: 4 14; 7 34, 53.

Pelican

Brown, Pelecanus occidentalis

Various, Pelecanus sp.

Penaeopsis joyneri: 9 20.

Penaeus aztecus: 5 34; 7 38; 9 11; 11 38, 40; 12 29; 13 6.

Penaeus duorarum: 4 10; 7 38; 11 40, 43.

Penaeus indicus: 10 48.

Penaeus latisulcatus: 12 35.

Penaeus setiferus: 10 61; 12 29; 13 21.

Penaeus sp.: 2 7.

Penguin, Adelie, Pygoscelis adeliae

Perca flavescens: 3 9; 4 9; 5 32; 7 38, 48; 8 11, 16; 10 29; 12 26; 15 31.

Perch

Climbing, Anabas testudineus

Yellow, Perca flavescens

Perdix perdix: 4 12; 7 20; 10 2, 52, 62; 12 60.

Periwinkle, Littorina littorea

Pernis apivorus: 14 2, 3.

Peromyscus leucopus: 2 25; 3 15; 7 41, 56; 9 iv, 2, 23, 24, 26; 14 45, 47, 53; 15 61.

Peromyscus maniculatus: 11 54; 14 45, 46, 53; 15 33.

Peromyscus polionotus: 1 7, 17; 3 13-15; 8 8.

Petrel, storm, Oceanodroma furcata

Petromyzontidae: 11 33.

Phaeodactylum tricornutum: 2 22; 14 65, 70.

Phalacrocorax auritus: 7 20, 32; 8 8, 13.

Phalacrocorax carbo: 7 21, 36.

Phalacrocorax sp.: 1 32.

Phaseolus sp.: 3 23; 4 1.

Phaseolus vulgaris: 7 29; 14 56.

Phasianus colchicus: 1 6, 7 2 12; 3 12, 14; 4 8, 12, 17; 5 23; 7 21, 33, 40; 9 iv, 1, 14, 23, 30; 10 2, 34, 50, 52, 54, 63, 71; 12 60; 13 13, 15; 14 12.

Phasianus sp.: 3 8, 16; 5 6; 7 52, 53; 14 86.

Pheasant, ring-necked, Phasianus colchicus

Philodena acuticornis: 6 20.

Philohela minor, see Scolopax minor

Phleum pratense: 7 11.  
Phoca groenlandica: 6 12; 10 43.  
Phoca hispida: 5 15; 7 25; 10 61, 64.  
Phoca spp.: 5 15, 25.  
Phoca vitulina: 5 15; 7 34; 10 37; 12 34; 14 53; 15 33.  
Phoenix sp.: 13 23.  
Phoxinus phoxinus: 7 48; 12 48.  
Physa heterostropha: 6 20.  
Physa sp.: 5 31; 8 19; 11 42, 46.  
Physeter macrocephalus: 7 25.  
Pica pica: 10 54.  
Picea abies: 14 26, 48.  
Picea alba: 12 22.  
Pickerel, chain, Esox niger  
Pieris brassicae: 9 6, 13.

Pig  
Guinea, Cavia spp.  
Domestic, Sus spp.

Pigeon, domestic, Columba livia,  
Pike, northern, Esox lucius  
Pimephales promelas: 1 8, 12, 13, 18; 2 31; 3 9; 4 9, 11, 14-16; 5 32; 6  
24-26; 7 51; 8 18, 22; 9 10, 18, 22; 10 58; 11 38, 41; 12 48, 55; 13 6,  
7, 20; 14 64; 15 46.

Pine  
Mugho, Pinus sp.  
Shortleaf, Pinus echinata  
Pinfish, Lagodon rhomboides  
Pinna nobilis: 6 33.  
Pinnipeds: 14 99.  
Pintail, northern, Anas acuta  
Pinus echinata: 14 26.  
Pinus silvestris: 12 22, 41.  
Pinus sp.: 3 4, 15, 23; 12 41.  
Pisum sativum: 4 19; 12 39, 41.  
Pitar morrhuanus: 6 10.  
Pitymys (= Microtus) pinetorum: 14 91.  
Placopecten magellanicus: 2 6; 11 28; 12 28.  
Plaice, Platichthys flesus, Pleuronectes platessa  
Plant, marine flowering, Posidonia oceanica  
Platichthys flesus: 2 8; 7 31, 48, 60; 11 40; 14 33.  
Platymonas subcordiformis: 14 70.  
Plegadis chihi: 5 14.  
Pleuronectes flesus: 10 61.  
Pleuronectes platessa: 14 67.  
Plumaria elegans: 12 50.  
Poa annua: 12 6, 39.  
Pochard, Aythya ferina  
Podiceps cristata: 10 35.

Podiceps nigricollis: 5 20.  
Podiceps spp.: 7 22.  
Podicipediformes: 10 12.  
Podilymbus podiceps: 4 6.  
Podoclavella moluccensis: 6 11.  
Podophthalmus vigil: 6 34.  
Poecilia reticulata: 3 21; 4 9; 5 6, 37; 8 18, 21, 28; 10 61; 14 71; 15 46.  
Poeciliopsis spp.: 11 36, 48.  
Polecat, Mustela putorius furo  
Polychaetes, Capitella, Neanthes, Nereis  
Pomatomus saltatrix: 2 8; 10 40.  
Pomoxis annularis: 2 11.  
Pontoporeia affinis: 2 23, 29.  
Pontoporeia hoyi: 11 45.  
Populus tremuloides: 7 11.  
Porcellio scaber: 14 48, 57.  
Porcellio sp.: 5 22.  
Porcupine, Erethizon dorsatum  
Porgy, Pachymetopan grande  
Porgy, black, Sparus macrocephalus  
Porphyra martinica: 4 7.  
Porthetria dispar: 14 31.  
Porzana carolina: 14 40.  
Posidonia oceanica: 10 22.  
Potamogeton crispus: 2 3; 15 4.  
Potamogeton foliosus: 14 71.  
Potamogeton richardsoni: 2 10.  
Potamogeton spp.: 12 23; 14 27.  
Potato  
    Common, Solanum tuberosum  
    Sweet, Ipomoea batatas  
Prawn  
    Deep sea, Pandalus borealis  
    Freshwater, Macrobrachium tamarrei, M. rosenbergii  
    Various, Pandalus montagui, Pandalus spp., Penaeus indicus, Penaeus latisulcatus  
Prionace glauca: 12 35.  
Pristina sp.: 2 21.  
Procambarus acutus acutus: 3 9.  
Procambarus blandisi: 1 4, 12, 21.  
Procambarus clarkii: 1 14, 18; 9 19; 13 7.  
Procambarus spp.: 4 7.  
Procyon lotor: 1 21; 5 24; 7 41, 56; 10 38, 43; 14 46, 99, 104.  
Pronghorn, Antilocapra americana  
Prosopium cylindraceum: 10 29; 15 31.  
Protozoan, Chilomonas, Cristigera, Entosiphon, Paramecium, Tetrahymena,  
    Uronema  
Prunus avium: 10 22.

Prunus serotina: 14 27, 48.

Psettichthys melanostictus: 11 40, 42.

Pseudagrion spp.: 13 7.

Pseudomonas sp.: 3 6; 5 4; 9 3; 15 4.

Pseudopleuronectes americanus: 2 23; 5 34; 8 18; 11 29; 15 31.

Pseudorasbora parva: 9 20.

Ptarmigan

Common, Lagopus mutus

Willow, Lagopus lagopus

Pteronarcella badia: 7 37; 13 6, 7.

Pteronarcys californica: 9 10; 12 46; 13 7.

Pteronarcys dorsata: 12 46.

Pteronarcys sp.: 4 9.

Ptychocheilus oregonensis: 10 40.

Puffins, Fratercula spp.

Puffinus pacificus: 5 14.

Pumpkinseed, Lepomis gibbosus

Puntius conchonius: 14 64.

Pygoscelis adeliae: 2 9.

Pyrus communis: 4 1; 5 22; 15 65, 69.

Pytiscidae: 2 28.

Quail

California, Callipepla californica

Common, Coturnix coturnix

Coturnix, Coturnix risoria

Japanese, Coturnix japonica

Quelea, Quelea quelea

Quelea quelea: 3 12, 15.

Quercus spp.: 12 41.

Quiscalus mexicanus: 4 6.

Quiscalus quiscula: 3 12, 17; 7 36, 52; 10 54; 13 13.

Rabbit,

Various, Lepus, Oryctolagus, Sylvilagus

White, Oryctolagus cuniculus

Raccoon, Procyon lotor

Racerunner, six-lined, Cnemidophorus sexlineatus

Radish, Raphanus sativus

Rail

Clapper, Rallus longirostris

Sora, Porzana carolina

Raja erinacea: 8 18.

Raja sp.: 12 32, 35.

Rallus longirostris: 1 32; 4 7.  
Rana catesbeiana: 8 20; 9 10; 10 30; 13 6; 14 34, 50, 72.  
Rana clamitans: 14 50.  
Rana pipiens: 6 12; 10 30, 47, 59; 11 49; 14 72.  
Rana sphenocephala: 4 9.  
Rana spp.: 12 32; 14 34.  
Rana temporaria: 15 46.  
Rana temporaria: 10 31.  
Rana utricularia: 14 72.  
Rangia cuneata: 3 10, 22; 6 34; 11 36, 41, 43, 44.  
Rangifer tarandus: 10 64; 14 100.  
Raphanus sativus: 14 56.  
Rasbora heteromorpha: 15 46.

Rat  
    Cotton, Sigmodon hispidus  
    Laboratory white, Rattus spp.  
    Norway, Rattus norvegicus  
Rattus norvegicus: 5 24; 7 41; 13 14; 14 46, 47.  
Rattus spp.: 1 3-7, 10, 16; 2 iii, 19, 31; 3 11, 13, 15, 16, 23-25; 4 4, 8, 18, 5 iv, 26-29, 39, 41, 43, 44; 6 18, 27, 38-40; 7 41-43, 49, 54, 55, 58, 60; 8 24-29; 9 iv, 8, 13, 14, 24, 26, 30; 10 12, 65, 66; 11 1, 49, 51-53, 55, 63; 12 11, 69, 70, 73; 14 iii, 12-15, 55, 87, 95-97, 99, 108; 15 3, 4, 8, 10, 11, 52-64, 68

Ray, Raja sp.  
Recurvirostra americana: 5 20.  
Redhead, Aythya americana  
Redhorse, black, Moxostoma duquesnei  
Redshank, Icelandic, Tringa totanus robusta  
Rhizophora spp.: 1 12; 10 20.  
Rice,  
    Domestic, Oryza sativa  
    Wild, Zizania aquatica  
Rissa tridactyla: 7 21.  
Rithropanopeus harrisi: 4 10; 15 36, 45.  
Robin,  
    American, Turdus migratorius  
    European, Erythacus rubecula  
Rotifer, Brachionus plicatilis  
Rudd, Scardinius erythrophthalmus  
Rye, Secale cereale  
Rye, perennial, Lolium perenne  
Rynchos niger: 7 21, 32.

Saccharum officinarum: 3 1; 8 29.  
Saccobranchus fossilis: 3 9.  
Sagebrush, big, Artemisia tridentata  
Saguinus fuscicollis: 9 1.  
Saimiri spp.: 6 18.

Salamander

Marbled, Ambystoma opacum

Tiger, Ambystoma tigrinum

Salmo clarki: 7 38; 9 10; 13 8.

Salmo gairdneri: 1 8; 2 11, 18, 27, 28; 3 9; 4 3, 9; 5 26, 33, 35, 36, 40, 41; 6 20, 24-26, 31, 32; 7 31, 37, 47-49, 57, 60; 8 8, 11, 18, 20, 28; 9 8, 10; 10 46, 49, 59-61; 11 15, 37, 41, 43, 44, 48; 12 26, 48, 53, 55; 13 8; 14 13, 55, 57, 60-62, 69; 15 37, 43, 47.

Salmo salar: 1 12, 13; 2 22; 5 26; 7 31, 48; 11 41, 43; 12 26; 15 32, 34.

Salmo spp.: 10 29.

Salmo trutta: 3 9; 4 9; 5 36; 7 47, 49; 8 11; 11 33.

Salmon

Atlantic, Salmo salar

Chinook, Oncorhynchus tshawytscha

Chum, Oncorhynchus keta

Coho, Oncorhynchus kisutch

Pink, Oncorhynchus gorbuscha

Various, Salmonidae

Salmonella: 2 31; 3 25; 4 18.

Salmonella typhimurium: 3 25; 6 30; 7 55; 8 17; 11 34, 49; 12 35.

Salmonidae: 5 iii, 18; 7 10, 47, 54; 10 40; 15 34, 70.

Saltbush, Atriplex spp.

Salvelinus fontinalis: 1 13, 18, 27; 2 18, 20, 22; 4 14, 15, 16; 5 33; 6 26; 7 12, 31, 48, 49, 51; 9 10, 18, 20, 22; 10 29, 46, 49, 59-61, 70, 74; 12 49; 14 62, 63.

Salvelinus namaycush: 1 27; 3 9; 4 5; 5 27, 35; 6 12, 26; 7 27, 31, 47, 60, 61; 8 8, 11; 9 10; 10 29; 12 26; 13 9; 14 62; 15 32.

Sanddab, speckled, Citharichthys stigmaeus

Sandpiper

Solitary, Tringa solitaria

Spotted, Actitis macularia

Various, Calidris, Erolia

Sarcorhampus papa: 14 3.

Sargassum fluitans: 12 27.

Sargassum sp.: 12 27.

Sauger, Stizostedion canadense

Scallop

Bay, Argopecten irradians

Giant, Placopecten magellanicus

Pacific, Chlamys ferrei nippensis

Rock, Hinnites multirugosus

Various, Pecten

Scardinus erythrophthalmus: 6 31.

Scaup, lesser, Aythya affinis

Scenedesmus obliquus: 12 44, 45.

Scenedesmus quadricauda: 7 48; 15 38.

Sciurus carolinensis: 2 14; 10 38.

Sciurus hudsonicus: 2 14.

Scolopax minor: 1 31; 3 18; 7 21.

Scombridae: 5 13.

Scophthalmus aquosus: 7 13, 31; 11 30; 12 32.

Screech-owl, eastern, Otus asio

Scripsiella faeroense: 10 59.

Scrobicula plana: 2 6.

Scud, Gammarus, Hyalella

Sculpin, shorthorn, Myoxocephalus scorpius

Sea-eagle, white-tailed, Haliaeetus albicilla

Sea lion, California, Zalophus californianus

Sea urchin, Anthocidaris, Arbacia, Echinodermata, Hemicentrotus, Paracentrotus

Seal

Australian fur, Arctocephalus pusillus

Gray, Halichoerus grypus

Harbor, Phoca groenlandica, P. vitulina

Harp, Pagophilus groenlandica

Northern fur, Callorhinus ursinus

Ringed, Phoca hispida

Weddell, Leptonychotes weddell

Seatrout, spotted, Cynoscion nebulosus

Secale cereale: 5 2; 6 13; 11 26; 12 12.

Selenastrum capricornutum: 12 45; 14 58, 71.

Sepioteuthis australis: 12 35.

Sergestes lucens: 12 30.

Seriola quinqueradiata: 9 9.

Sesarma cinereum: 4 10.

Sesarma heamatocheir: 6 24.

Shad

Gizzard, Dorosoma cepedianum

Threadfin, Dorosoma petenense

Shark

Blue, Prionace glauca

Shortfin mako, Isurus oxyrinchus

Various, Carcharhinus, Mustelus, Sphyrna

Whitetip, Carcharhinus longimanus

Sharks: 10 40, 74.

Shearwater, wedge-tailed, Puffinus pacificus

Sheep

Bighorn, Ovis canadensis

Domestic, Ovis aries, Ovis sp.

Shell

Ivory, Buccinum striatissimum

Spindle, Hemifusus

Shiner

Blacktail, Notropis venustus

Spottail, Notropis hudsonius

Shoveler, northern, Anas clypeata

Shrew

Common, Sorex araneus  
Short-tailed, Blarina brevicauda

Shrimp

Brine, Artemia salina  
Brown, Penaeus aztecus  
Glass, Palaemonetes kadiakensis  
Grass, Palaemonetes pugio, P. vulgaris  
Korean, Palaemon macrodactylus  
Mysid, Metamysidopsis, Mysidopsis, Mysis  
Pink, Penaeus duorarum  
Sand, Crangon crangon  
Various, Lysmata, Penaeopsis, Sergestes  
White, Penaeus setiferus

Shrimps: 5 17, 37; 6 35; 7 38, 47, 48; 9 iii, 8; 10 24; 12 29, 30, 81; 13 19; 15 37.

Sicklepod, Cassia spp.

Sigmodon hispidus: 6 5, 15, 42.

Silkworm, Bombyx mori

Sillago bassensis: 12 56.

Silverside

Atlantic, Menidia menidia  
Inland, Menidia beryllina  
Tidewater, Menidia peninsula

Simocephalus serrulatus: 2 17; 9 10; 12 47.

Simocephalus sp.: 4 9.

Simulium sp.: 14 31.

Siphonoptera: 9 3; 13 1.

Skate, little, Raja erinacea

Skeletonema costatum: 2 22; 12 50; 14 65; 15 38-40, 43, 45, 47.

Skimmer, black, Rynchops niger

Skipper, mud, Boleophthalmus dussumieri

Skua, great, Catharacta skua

Slug, Agriolimax reticulatus

Smelt, rainbow, Osmerus mordax

Snail

Land, Helix aspersa

Mud, Nassarius obsoletus

Pond, Cipangopaludina malleata

Ram's horn, Helisoma trivolvis

Red, Indoplanorbis exustus

Various, Amnicola, Arcularia, Australorbis, Biomphalaria, Bulinus,  
Helisoma, Helix, Lanistes, Lymnaea, Mudalia, Neritina, Physa,  
Viviparus

Snake

Garter, Thamnophis sp.

Northern water, Nerodia sipedon

Water, Natrix, Nerodia

Snapper, mangrove, Lutjanus griseus

Solanum tuberosum: 5 22; 12 6, 12; 14 27.

Sole

English, Parophrys vetulus  
Sand, Psettichthys melanostictus  
Various, Limanda, Solea, Trinectes

Solea solea: 7 8; 15 44.

Solenopsis invicta: 1 iii, 1, 11, 20, 21, 23, 24, 33; 13 1.

Solidago graminifolia: 7 11.

Somateria mollissima: 1 32; 2 9; 6 14.

Sorex araneus: 14 47.

Sorghum, Sorghum halopense

Sorghum halopense: 3 22; 12 68.

Soybean, Glycine max

Sparrow

Chipping, Spizella passerina

House, Passer domesticus

Sparrowhawk, European, Accipiter nisus

Spartina alterniflora: 10 20; 12 53.

Spartina spp.: 6 9.

Sparus macrocephalus: 10 14.

Spermophilus variegatus: 5 24.

Sphagnum spp.: 10 22.

Sphyngidae: 12 6.

Sphyrna spp.: 10 29.

Spider, Araneus umbricatus

Spinach, Spinacia oleracea

Spinacia oleracea: 11 35.

Spizella passerina: 2 27.

Spot, Leiostomus xanthurus

Spruce, Picea spp.

Squalus acanthias: 12 32; 15 32.

Squawfish, northern, Ptychocheilus oregonensis

Squid, Loligo, Ommastrephes, Sepioteuthis

Squids: 6 10.

Squirrel

Gray, Sciurus carolinensis

Red, Sciurus hudsonicus

Rock, Spermophilus variegatus

Stanleya spp.: 5 6.

Starfish, Asterias forbesi

Starling, European, Sturnus vulgaris

Stelgidopteryx serripennis: 14 40.

Stenella coeruleoalba: 10 38, 43.

Sterna forsteri: 4 6; 8 8, 13.

Sterna fuscata: 5 14.

Sterna hirundo: 2 10; 10 63; 14 82.

Sterna maxima: 5 14.

Sterna paradisaea: 7 22.

Stichopus japonicus: 12 35.

Sickleback

    Fourspine, Apeltes quadratus

    Threespine, Gasterosteus aculeatus

Stilt, black-necked, Himantopus mexicanus

Stizostedion canadense: 2 11.

Stizostedion vitreum vitreum: 2 11, 20; 6 26; 7 14; 10 29.

Strawberry, Fragaria vesca

Streptopelia capicola: 1 9.

Streptopelia risoria: 2 24; 7 36, 50, 53, 60; 8 23; 13 14; 14 82, 83.

Sturgeon

    Sevyuga, Accipenser stellatus

    Sheep, Accipenser nuditentris

Sturnella magna argutula: 8 8.

Sturnella neglecta: 9 29.

Sturnus vulgaris: 1 6; 2 13; 3 12; 7 22, 32, 36, 40; 9 14; 10 54, 62; 12 33; 13 13; 14 40, 41, 52, 84, 107.

Stylodrilus sp.: 11 45.

Sucker, white, Catostomus commersoni

Sugar cane, Saccharum officinarum

Sula leucogaster: 7 23.

Sula sula: 5 14.

Sunfish

    Green, Lepomis cyanellus

    Longear, Lepomis megalotis

    Redear, Lepomis microlophus

    Spotted, Lepomis punctatus

Sunflower, Helianthus spp.

Sus spp.: 5 26, 28-30, 39, 44; 8 1, 5, ; 9 iv, 8, 13, 14, 16, 24, 27; 10 12, 54, 55; 12 6, 11, 70, 77, 81; 13 12; 14 86, 98, 99.

Swallow

    Barn, Hirundo rustica

    Northern rough-winged, Stelgidopteryx serripennis

Swan

    Mute, Cygnus olor

    Trumpeter, Cygnus buccinator

    Tundra, Cygnus columbianus

Swine, Sus spp.

Swordfish, Xiphias gladius

Sylvilagus floridanus: 2 14; 7 41.

Sylvilagus sp.: 12 71.

Tadpoles: 12 11.

Talpa europea: 5 24.

Tamarin, Saguinus fuscicollis

Tanytarsus dissimilis: 2 17; 5 31; 7 51; 14 60.

Tapes decussatus: 10 61.

Tapeworm: 12 3.

Tea, Labrador, Ledum sp.

Teal

Blue-winged, Anas discors

Green-winged, Anas carolinensis

Termite

Australian, Mastotermes darwinensis

Rhodesian, Trinervitermes dispar

Tern

Arctic, Sterna paradisaea

Common, Sterna hirundo

Forster's, Sterna forsteri

Royal, Sterna maxima

Sooty, Sterna fuscata

Terrapene carolina: 1 21; 14 35.

Tetraedron sp.: 13 18.

Tetrahymena pyriformis: 5 35; 7 45.

Tetranychus mcdanieli: 15 65.

Tetranychus urticae: 15 65.

Tetraselmis chui: 12 54.

Thaïs lapillus: 2 6.

Thalassiosira aestivalis: 12 50.

Thalassiosira pseudonana: 15 37, 39.

Thamnophis sp.: 11 49.

Thomomys sp.: 9 1.

Thynnus spp.: 5 14; 10 40.

Tilapia, Mozambique, Tilapia mossambica

Tilapia mossambica: 14 49; 15 46.

Timothy, Phleum pratense

Tipula sp.: 4 9; 5 22.

Tisbe holothuria: 6 22.

Toad

European, Bufo bufo

Narrow-mouthed, Gastrophryne carolinensis

Various, Bufo sp., Bufo terrestris

Toadfish, Gulf, Opsanus beta

Toadflax, bastard, Comandra

Tobacco, Nicotiana tabacum

Tomato, Lycopersicon esculentum

Tomcod, Microgadus tomcod

Triaenodus tardus: 3 21.

Trichechus manatus: 7 25, 34.

Trichogaster pectoralis: 3 21.

Tridacna maxima: 11 28; 12 35.

Trifolium sp.: 4 1.

Trinectes maculatus: 1 14.

Trinervitermes dispar: 6 14.

Tringa solitaria: 7 23.

Tringa totanus robusta: 12 33.

Triticum aestivum: 2 12; 5 22; 9 25; 10 1; 11 25, 26; 12 12, 43.

Triticum vulgare: 15 28.

Triturus cristatus: 11 49.

Trout

Brook, Salvelinus fontinalis

Brown, Salmo trutta

Cutthroat, Salmo clarki

Lake, Salvelinus namaycush

Rainbow, Salmo gairdneri

Spotted sea, Cynoscion nebulosus

Tubifex costatus: 12 51.

Tubifex sp.: 6 30; 14 32.

Tubifex tubifex: 3 10; 15 27, 45.

Tuna

Japanese, Scombridae

Various, Thynnus spp.

Tunas: 10 30; 14 34.

Tunicate, Podoclavella moluccensis

Turdus merula: 5 23;

Turdus migratorius: 2 12; 7 23; 12 56; 14 41.

Turkey, Meleagris gallopavo

Turnip, Brassica rapa

Turtle

Atlantic green, Chelonia mydas

Box, Terrapene carolina

Slider, Chrysemys scripta

Snapping, Chelydra serpentia

Loggerhead, Caretta caretta

Turtle-dove, ringed, Streptopelia risoria

Tuskfish, scarbreast, Choerodon azurio

Tymanuchus cupido: 10 52.

Tymanuchus cupido attwateri: 7 23.

Tymanuchus phasianellus: 4 12.

Tyto alba: 7 53.

Uca minax: 3 22.

Uca pugillator: 2 23; 10 48, 61; 15 37, 43.

Uca sp.: 13 19, 21.

Ulmus americana: 15 28.

Ulva sp.: 14 27.

Umbra limi: 9 18.

Umbra pygmaea: 6 13; 11 48.

Upeneus moluccensis: 15, 27.

Uria aalge: 7 23.

Uronema marinum: 10 47.

Uronema nigricans: 10 61.

Uronema sp.: 14 59.

Urophycus chuss: 11 30.

Ursus maritimus: 7 1, 25.

Vaccinium angustifolium: 12 22.

Vaccinium pallidum: 14 27.

Vigna sp.: 12 41.

Vitis sp.: 5 22.

Vole

Bank, Clethrionomys glareolus

Field, Microtus agrestis

Meadow, Microtus pennsylvanicus

Pine, Pitymys (= Microtus) pinetorum

Prairie, Micropterus ochrogaster, Microtus ochrogaster

Viviparus ater: 14 14.

Vulpes sp.: 12 34; 14 99; 15 33.

Vulpes vulpes: 10 39, 43, 64.

Vultur gryphus: 14 2.

Vulture, king, Sarcophampus papa

Walleye, Stizostedion vitreum vitreum

Walrus, Odobenus rosmarus

Watermilfoil, Eurasian, Myriophyllum spicatum

Weed

Duck, Lemna minor

Lake, Lagarosiphon major

Loco, Astragalus

Pond, Ceratophyllum, Najus, Navicula, Potamogeton

Sargassum, Sargassum fluitans

Sea, Chondrus, Fucus, Sargassum

Water, Elodea

Whale

Cuvier's goosebeaked, Ziphius cavirostris

Fin, Balaenoptera physalis

Pilot, Globicephala macrorhynchus

Sperm, Physeter macrocephalus

Wheat, Triticum aestivum, Triticum vulgare

Whelk

Common dog, Nucella lapillus, Nucellus lapillus

Various, Kelletia kelletia, Thais lapillus

Whistling-duck, fulvous, Dendrocygna bicolor

Whitefish

Lake, Coregonus clupeaformis

Round, Prosopium cylindraceum

Various, Coregonus spp.

Whiting, Sillago bassensis

Wigeon, American, Anas americana

Wolfish, spotted, Anarhichas minor

Woodchuck, Marmota monax

Woodcock, American, Scolopax minor

Woodlice: 14 32, 48.

Worm

Earth, Allobophora, Eisenia, Lumbricus, Octochaetus

Horn, Sphyngidae

Lug, Arenicola cristata

Marine, Nephtys hombergi

Sand, Nereis diversicolor

Silk, Bombyx mori

Tiger, Eisenia foetida

Tobacco horn, Manduca sexta

Various, Limnodrilus, Nais, Neanthes, Paranaïs, Stylodrilus, Tubifex

Worms: 6 44; 7 8, 28, 50; 14 35; 15 8, 15.

Xenopus laevis: 5 31, 35; 11 49.

Xiphias gladius: 5 14; 10 30.

Yeasts: 3 26; 12 9, 41.

Yellowtail, Seriola quinqueradiata (= lalandei)

Zalophus californianus: 2 10; 5 15, 25; 10 39, 43; 14 52.

Zapus princeps: 6 15.

Zea mays: 3 iii, 1, 4, 5, 15, 17, 21, 26-28; 4 19; 5 22; 6 13; 8 16; 9 1; 12 12, 43; 14 48, 56; 15 28.

Zebrafish, Brachydanio rerio

Zenaida (= Zenaidura) macroura: 7 23, 50, 60; 10 35; 14 2, 85.

Ziphius cavirostris: 7 26.

Zizania aquatica: 14 70.

Zylorhiza spp.: 5 6.

## LITERATURE CITED

American Fisheries Society. 1980. A list of common and scientific names of fishes from the United States and Canada. Am. Fish. Soc. Spec. Publ. 12. 174 pp.

Edwards, E. P. 1974. A coded list of birds of the world. Ernest P. Edwards, Sweet Briar, Virginia. 174 pp.

Eisler, R. 1985a. Mirex hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.1). 42 pp.

Eisler, R. 1985b. Cadmium hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.2). 46 pp.

Eisler, R. 1985c. Carbofuran hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.3). 36 pp.

Eisler, R. 1985d. Selenium hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.5). 57 pp.

Eisler, R. 1986a. Chromium hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.6). 60 pp.

Eisler, R. 1986b. Polychlorinated biphenyl hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.7). 72 pp.

Eisler, R. 1986c. Dioxin hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.8). 37 pp.

Eisler, R. 1986d. Diazinon hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.9). 37 pp.

Eisler, R. 1987a. Mercury hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.10). 90 pp.

Eisler, R. 1987b. Polycyclic aromatic hydrocarbon hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv.

Biol. Rep. 85(1.11). 81 pp.

Eisler, R. 1988a. Arsenic hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.12). 92 pp.

Eisler, R. 1988b. Lead hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.14). 134 pp.

Eisler, R. 1989. Tin hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.15). 83 pp.

Eisler, R., and J. Jacknow. 1985. Toxaphene hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.4). 26 pp.

Jenkins, D. W. 1980. Biological monitoring of toxic trace metals. Vol. 1; Vol. 2, Parts I, II, and III. U. S. Environ. Protection Agency Rep. 600/3-80-092. 1274 pp.

Johnson, W. W., and M. T. Finley. 1980. Handbook of acute toxicity of chemicals to fish and aquatic invertebrates. U. S. Fish. Wildl. Serv. Resour. Publ. 137. 98 pp.

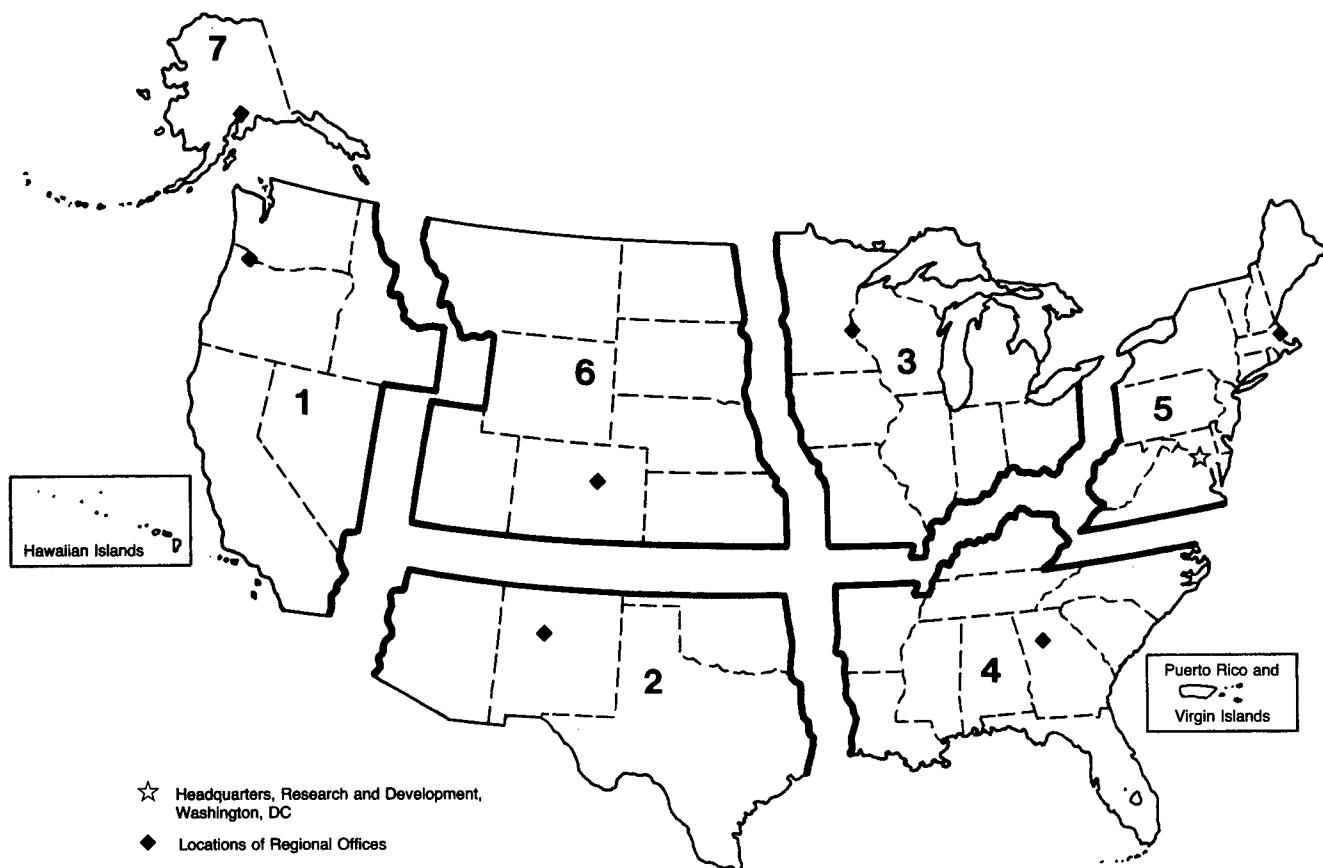
Nowak, R. M., and J. L. Paradiso. 1983. Walker's mammals of the world. Vol. I and II. Johns Hopkins Univ. Press, Baltimore, Maryland. 1362 pp. + LXXXI.

Odenkirchen, E. W., and R. Eisler. 1988. Chlorpyrifos hazards to fish, wildlife, and invertebrates: a synoptic review. U.S. Fish Wildl. Serv. Biol. Rep. 85(1.13). 34 pp.

Scott, T. G., and C. H. Wasser. 1980. Checklist of North American plants for wildlife biologists. The Wildlife Society, Suite 611, 7101 Wisconsin Ave. NW, Washington, DC 20014. 58 pp.

Swain, R. B., and S. N. Swain. 1948. The insect guide. Doubleday, New York. 261 pp.

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